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| APPROVED | O.G. FIG. | |
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5891429

20
GCT GGAGG ATG TGG CTG CAG AGC CTG CTC CTG GGC ACT GTG GCC TGC
MET Trp Leu Gln Ser Leu Leu Gly Thr Val Ala Cys

80
Ser CSF-G. Arg CSF-G
T B
AGC ATC TCT GCA CCC GCC CGC TCG CCC AGC ACC AGC CAG CCC TGG GAG CAT
CSF-thr Ser Ile Ser Ala Pro Ala Arg Ser Pro Ser Pro Ser Thr Gln Pro Trp Glu His

140
GTG AAT GCC ATC CAG GAG GCC CGG CGT CTC CTG AAC CTG AGT AGA GAC ACT GCT
Val Asn Ala Ile Gln Glu Ala Arg Arg Leu Leu Asn Leu Ser Arg Asp Thr Ala

200
Ile CSF-G Val CSF-G
A G
GCT GAG ATG AAT GAA ACA GTA GAA GTC ATC TCA GAA ATG TTT GAC CTC CAG GAG
Ala Glu MET Asn Glu Thr Val Glu Val Ile Ser Glu MET Phe Asp Leu Gln Glu

260
CCG ACC TGC CTA CAG ACC CGC CTG GAG CTG TAC AAG CAG GGC CTG CAG GGC AGC
Pro Thr Cys Leu Gln Thr Arg Leu Glu Leu Tyr Lys Gln Gly Leu Arg Gly Ser

320
CTC ACC AAG CTC AAG GGC CCC TTG ACC ATG ATG GCC AGC CAC TAC AAG CAG CAC
Leu Thr Lys Leu Lys Gly Pro Leu Thr MET MET Ala Ser His Tyr Lys Gln His

Ile CSF-ile
T
TGC CCT CCA ACC CCG GAA ACT TCC TGT GCA ACC CAG ACT ATC ACC TTT GAA AGT
Cys Pro Pro Thr Pro Glu Thr Ser Cys Ala Thr Gln Thr Ile Thr Phe Glu Ser

FIG. 1A

| | | |
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| APPROVED | O.G. FIG. | |
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380

Thr CSF-G
C

TTC AAA GAG AAC CTG AAG GAC TTT CTG CTT GTC ATC CCC TTT GAC TGC TGG GAG
Phe Lys Glu Asn Leu Lys Asp Phe Leu Val Ile Pro Phe Asp Cys Trp Glu

450 460 470 480 490 500

Gly CSF-G
G

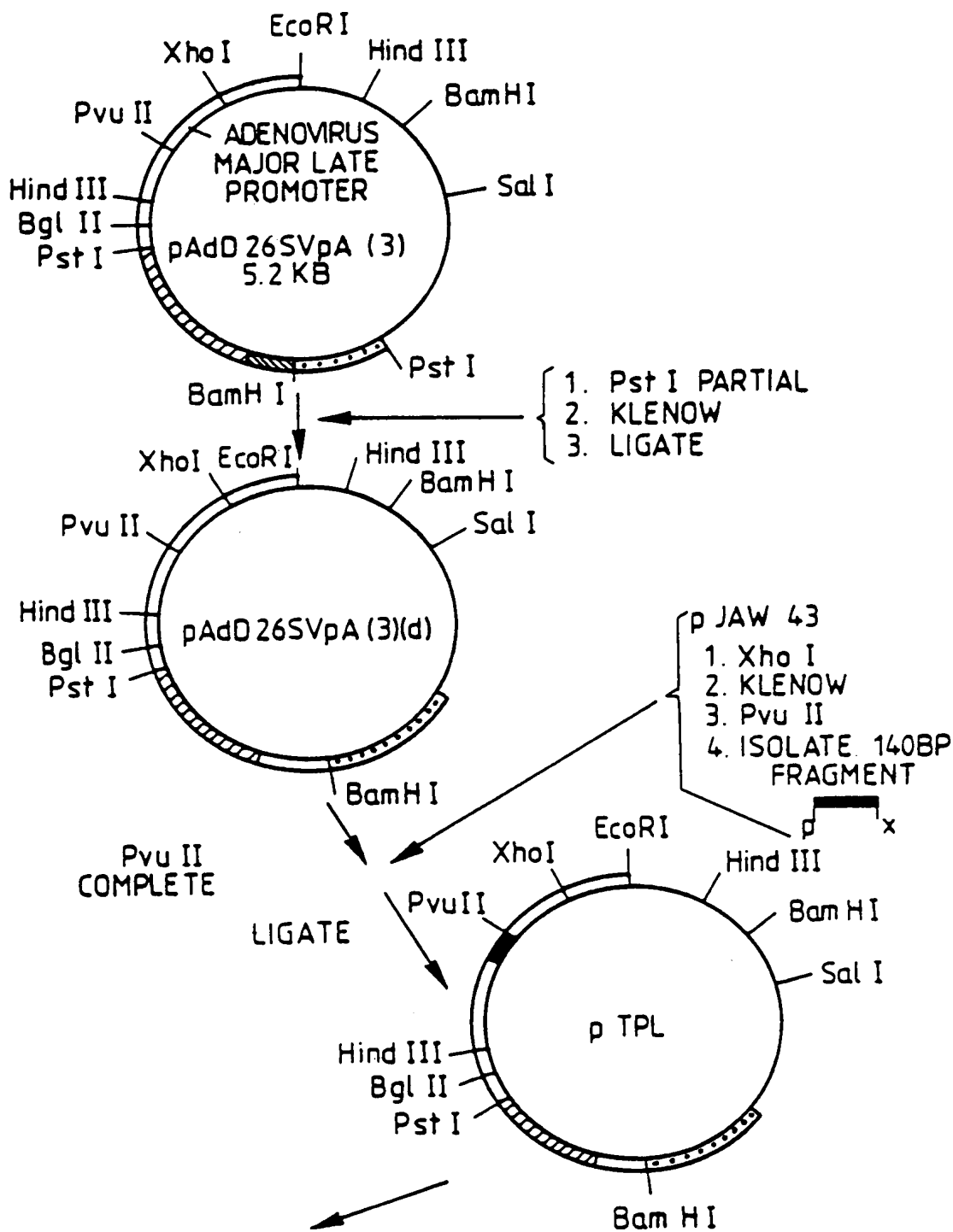
CCA GTC CAG GAG TGA GACCGGCCAG ATGAGGCTGG CCAAGCCGGG GAGCTGCTCT CTCATGAAAC
Pro Val Gln Glu *
127

510 520 530 540 550 560 570

A
AAGAGCTGGA AACTCAGGAT GGTCATCTTG CAGGGACCAA GGGGTGGGCC ACATCCATGG TGGGAGTGGC
580 590 600 610 620 630 640

T
CGGGACCTGC CCTGGGCCAC ACTGACCCTG ATACAGGCAT GGCAGAAGAA TGGGAATATT TTATACTGAC
650 660 670 680 690 700 710
AGAAATCAGT AATATTATA TATTATATT TTAAAAATAT TTATTATTT ATTTATTAA GTTCATATTC
720 730 740 750 760 770 780
CATATTTATT CAAGATGTTT TACCGTAATA ATTATTATTA AAAATATGCT TCTAAAAAAA AAAAAAAAAA

FIG. 1B



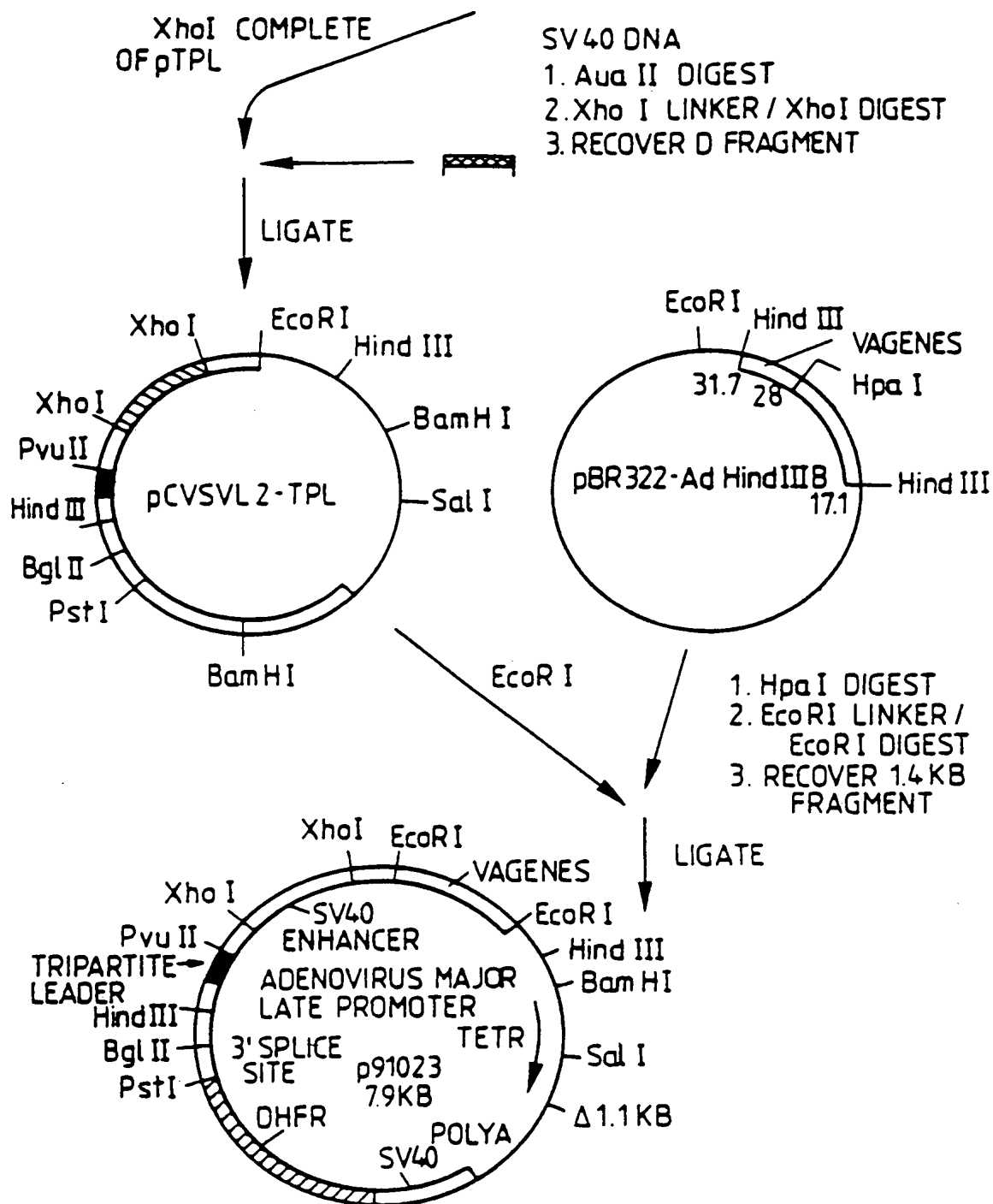


FIG. 3

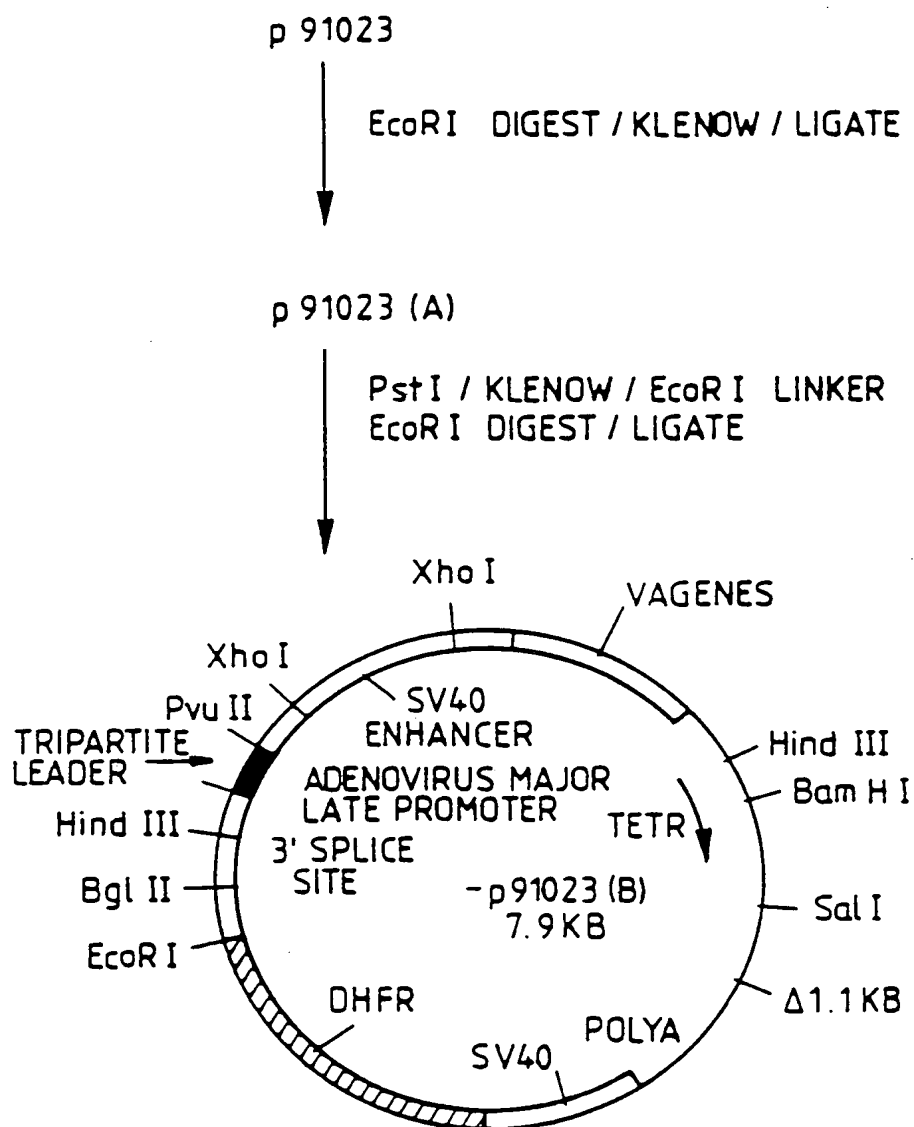
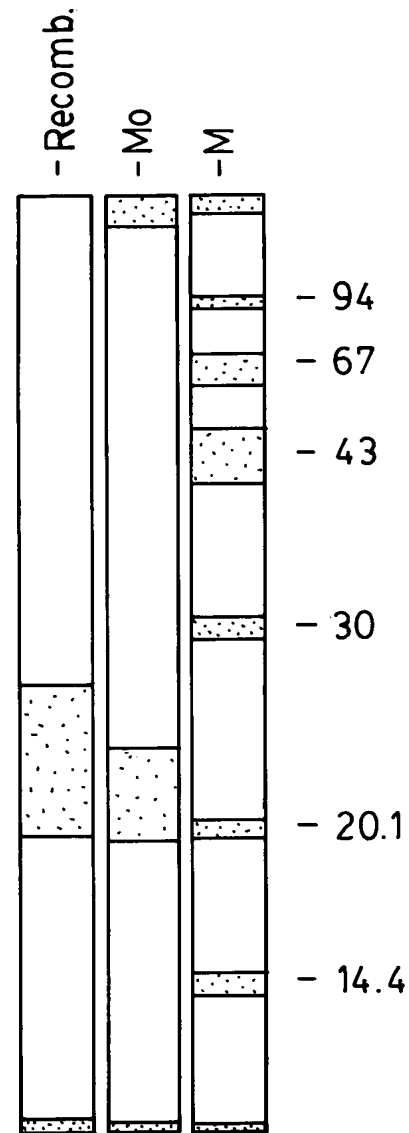


FIG. 4

| | | |
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SDS PAGE OF
GM-CSF

FIG. 5

| | | |
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p TALC - 185 R

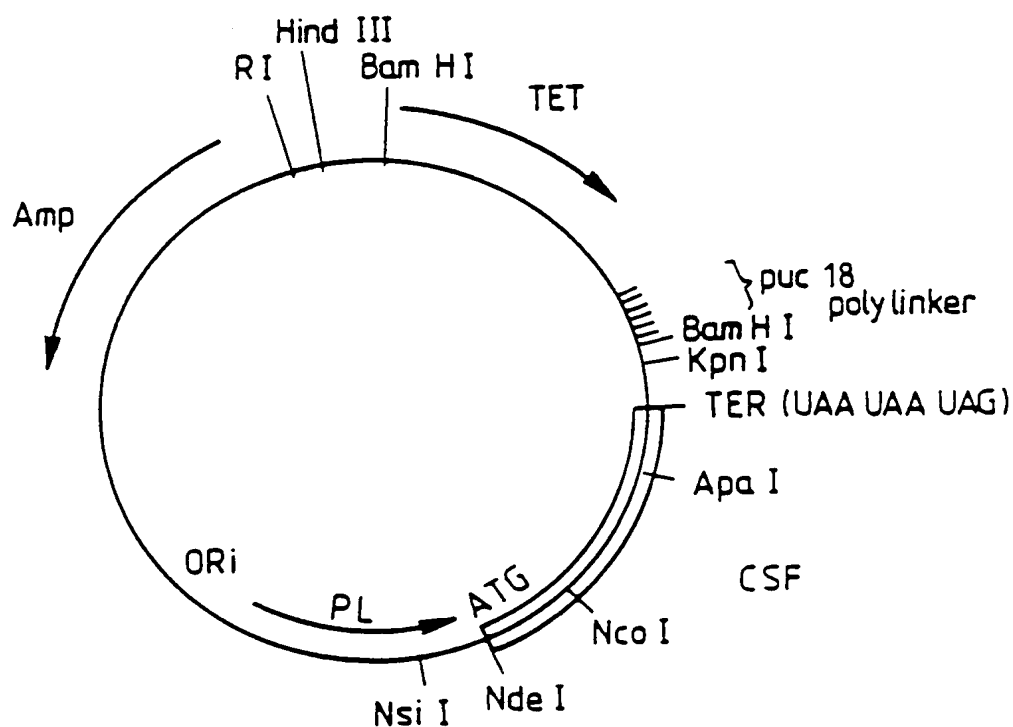


FIG. 6

| | | |
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| APPROVED | O.G: FIG. | |
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CSF Expression Plasmid AJ-14

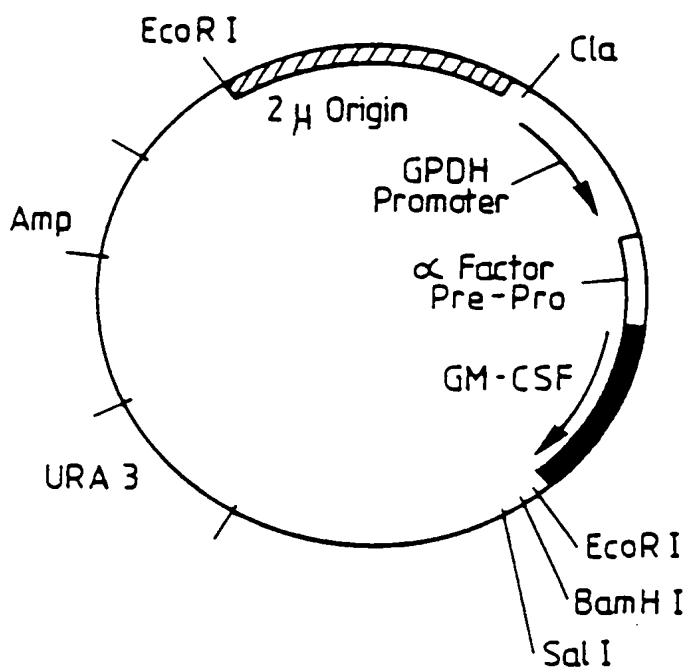


FIG. 7